



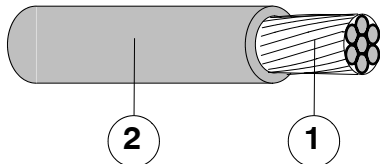
# RADOX eco-F Connecting leads

## GENERAL PROPERTIES :

Excellent high temperature, low temperature, ozone and weathering resistance, halogen free, flame retardant, easy to strip and process, resistant to impregnation resins and varnishes, soldering iron resistant, flexible.

## APPLICATION :

For protected and fixed installation inside electrical equipment, especially suitable for the connection of motor windings, switchboards, white goods, lighting fixtures, etc.



1. Conductor : Stranded tin plated copper, flexible
2. Insulation : RADOX eco-F  
extruded irradiation crosslinked polyolefin  
Colours : diverse

Printing: HUBER + SUHNER SWITZERLAND RADOX eco-F ...MM2  
HALOGEN FREE

## TECHNICAL DATA :

|   |                                     |    |
|---|-------------------------------------|----|
| Voltage rating $U_0/U$ .....                          | 450 / 750 .....                     | V  |
| Test voltage, 50 Hz, 1 min .....                      | 2 500 .....                         | V  |
| Min. operating temperature .....                      | - 40 .....                          | °C |
| Max. continuous conductor temperature .....           | 20'000 h ..... +120 .....           | °C |
|   | 2'000 h ..... +155 .....            | °C |
| Max. conductor temperature by short circuit (max. 5s) |                                     |    |
|   | fixed installation ..... +250 ..... | °C |
|   | free installation ..... +200 .....  | °C |
| Min. bending radius .....                             | 3 x cable dia                       |    |

TABLE 1 : Dimensions, conductor resistance, weight

| Cross section<br>nom.<br>mm <sup>2</sup> | Conductor<br>construction<br>nom.<br>n x mmØ | Conductor<br>diameter<br>max.<br>mm | Core-<br>diameter<br>D<br>mm | R <sub>20</sub><br>IEC 228<br>max.<br>Ω / km | Weight<br>nom.<br>kg / 100m |
|--|--|-------------------------------------|------------------------------|--|-----------------------------|
| 0.25                                     | 19 x 0.13                                    | 0.6                                 | 1.35 ± 0.05                  | 85.9   | 0.4                         |
| 0.34                                     | 19 x 0.16                                    | 0.8                                 | 1.60 ± 0.10                  | 52.1   | 0.6                         |
| 0.50                                     | 19 x 0.18                                    | 0.9                                 | 1.71 ± 0.10                  | 40.1   | 0.7                         |
| 0.75                                     | 19 x 0.23                                    | 1.1                                 | 1.90 ± 0.10                  | 26.7   | 1.0                         |
| 1.0                                      | 19 x 0.26                                    | 1.2                                 | 2.15 ± 0.10                  | 20.0   | 1.2                         |
| 1.5                                      | 30 x 0.25                                    | 1.5                                 | 2.45 ± 0.10                  | 13.7   | 1.8                         |
| 2.5                                      | 48 x 0.25                                    | 2.1                                 | 3.05 ± 0.10                  | 8.21   | 2.8                         |
| 4.0                                      | 56 x 0.30                                    | 2.65                                | 3.65 ± 0.10                  | 5.09   | 4.7                         |

## The cables pass the following fire tests:

|                                       |                              |              |
|---------------------------------------|------------------------------|--------------|
| Amount of halogen acid gas .....      | HCl+HBr ≤ 0.5% .....         | EN 50267-2-1 |
| Corrosivity of combustion gases ..... | pH ≥ 4.3, σ ≤ 10 μS/mm ..... | EN 50267-2-2 |
| Smoke density .....                   | T ≥ 70% .....                | EN 61034-2   |

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The product fulfils the test and specification requirements described in this document for the stated areas of application and operating conditions. HUBER+SUHNER AG does not expressly or implicitly guarantee performance under additional or changed conditions. Deviations are to be agreed upon in writing.

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